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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for mediating event records between a generation layer

of events and an operation system layer of events in a communications network by means of

a mediation layer of events, which includes at least one first self-contained component of the

mediation layer and at least one second self-contained component of the mediation layer,

which operates independently of each first component of the mediation layer, and at least one

buffer, the method comprising

collecting event records from an element of the generation layer of events substantially

continuously as a stream, by the at least one first self-contained component of the

mediation layer,

- processing the collected event records substantially continuously, wherein the step of

processing includes:

- writing the output from each of the at least one first self-contained component into

one of said at least one buffer, and

- reading the input for each of the at least one second self-contained component from

one of said at least one buffer,

- delivering the processed event records to an element of the operation system layer of

events substantially continuously as a stream, by the at least one second self-contained

component of the mediation layer,

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wherein the event records are passed through at least three self-contained components of the mediation layer, starting from one of the first self-contained components, then through at least one third self-contained component and finally through one of the second self-contained components,

- wherein the step of delivering event records comprises
- writing the event records output by a preceding self-contained component of the
   mediation layer into a buffer, and
- reading the buffer substantially continuously by the subsequent self-contained
   component of the mediation layer,
- wherein after reading an event record from a buffer, a copy of the event record is
   retained in the buffer, and removed from the buffer only after successfully outputting the
   event record from the reading self-contained component of the mediation layer.
- 2. (Original) A method according to claim 1, wherein at least part of the step of processing event records is performed by at least one first self-contained component of the mediation layer.
- 3. (Previously Presented) A method according to claim 10, wherein at least part of the step of processing event records is performed by at least one second self-contained component of the mediation layer.

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4. (Previously Presented) A method according to claim 1, wherein at least part of the step of

processing event records is performed by at least one third self-contained component of the

mediation layer that operates independently of the other self-contained components of the

mediation layer.

5. (Previously Presented) A method according to claim 1, wherein at least two different

hosts are used such that at least one of the self-contained components of the mediation layer

runs in a first host and at least one of the other self-contained components runs in another

host.

6. (Original) A method according to claim 4, comprising the steps of

delivering event records from each of the first self-contained components of the

mediation layer to the at least one third self-contained component of the mediation layer

via at least one buffer, and

delivering event records from the third self-contained components of the mediation layer

to one of the at least one second self-contained component of the mediation layer via at

least one buffer.

7-8. (Cancelled)

9. (Currently Amended) A method according to claim 8 claim 1, wherein the preceding self-

contained component of the mediation layer outputs event records into the buffer one by one,

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and the subsequent self-contained component of the mediation layer reads event records from

the buffer one by one.

10. (Currently Amended) A method according to claim 8 claim 1, wherein the preceding self-

contained component of the mediation layer outputs event records into the buffer grouped

into small groups of event records, and the subsequent self-contained component of the

mediation layer reads event records from the buffer in small groups of event records.

11. (Currently Amended) A method according to-claim 8 claim 1, wherein at least two

separate self-contained components of the mediation layer write event records into the same

one a single buffer.

12. (Currently Amended) A method according to claim 8 claim 1, wherein at least two

separate self-contained components of the mediation layer read event records from one and

the same a single buffer.

13. (Cancelled)

14. (Currently Amended) A method according to claim 13 claim 1, wherein the retained

event record is mark with marked with status information indicating the "under processing"

status of the event record.

15. (Previously Presented) A method according to claim 1, comprising the steps of

monitoring by a monitoring system the operation of the self-contained components of the

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mediation layer and, in case of failure of any of the self-contained components, automatically

setting up a new self-contained component to replace the failed component.

16. (Previously Presented) A method according to claim 1, comprising the steps of

monitoring by a monitoring system the production capacity of the self-contained components

of the mediation layer and, in case of insufficient production capacity of any of the self-

contained components, automatically setting up an auxiliary self-contained component

parallel to the self-contained component with insufficient production capacity.

17. (Currently Amended) A method according to claim 1, wherein the wherein an auxiliary

self-contained component is set up to run in a host different to the host in which the self-

contained component with insufficient production capacity runs.

18. (Previously Presented) A method according to claim 1, comprising the steps of

- receiving event records from the step of collecting in a source system format,

- converting the received event records into a mediation layer format,

- supplying the collected event records to the step of processing in the mediation layer

format,

- receiving the processed event records from the step of processing in the mediation layer

format,

- converting the processed event records into an operation system layer format, and

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- supplying the processed event records to the step of delivering in the operation system

layer format.

19. (Previously Presented) A method according to claim 1, wherein the step of processing

event records comprises at least one of the following: validating and analysing event records,

enrichment of event records, aggregation and correlation of event records, formatting of

event records and rating.

20. (Previously Presented) A method according to claim 1, wherein each of the self-

contained components operates independently and continuously once started.

21. (Previously Presented) A method according to claim 1, comprising the steps of

- stopping the operation of a self-contained component by the self-contained component

itself, and

- performing said step of stopping the operation by the self-contained component only if

instructed so by a manager component of the mediation layer.

22. (Previously Presented) A method according to claim 1, comprising the steps of

- providing each of the self-contained components with its own individual settings, and

each of the self-contained components functioning according to its own individual

settings.

23. (Original) A method according to claim 22, wherein said individual settings of each of

the self-contained components include

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- a node base part of the settings, which is identical to the node base parts of the other self-

contained components within the mediation layer, and

- a node application part of the settings, which contain custom processing rules and which

is different to the node application parts of at least most of the other self-contained

components within the mediation layer.

24. (Currently Amended) A system for handling event records in a communications network

between a generation layer of events and an operation system layer of events, the system

comprising:

- at least two-independent node components of a mediation layer for processing event

records, each of the independent node components having its own settings according to

which the node operates independently of other components of the system, at least two

of three of the independent node components being configured to handle event records in

series such that the first a preceding independent node component writes the event

records outputs output into a buffer and the second a subsequent independent node

component reads its input substantially continuously from the buffer,

- at least one node manager component for configuring the node components, starting up

the node components, monitoring the functioning of the node components and stopping

the node components, when required, and

- a system database for managing all configuration information of each component and

for storing information on handled events,

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- wherein after reading an event record from a buffer, a copy of the event record is

retained in the buffer, and removed from the buffer only after successfully outputting the

event record from the reading independent node component of the mediation layer.

25. (Currently Amended) A system according to claim 24, wherein more than one

independent node component have been configured to output into the same a single buffer.

26. (Currently Amended) A system according to claim 24, wherein more than one

independent node component have been configured to read its input from the same a single

buffer.

27. (Previously Presented) A system according to claim 24, wherein at least two of the

independent node components have been configured to input, process and output event

records substantially continuously.

28. (Previously Presented) A system according to claim 24, comprising a user interface for

controlling, monitoring and configuring the system.

29 (Currently Amended) A system according to claim 24, wherein the configuration or

settings of any component can be changed by a supervisor at any time, without stopping the

handling-a handling process.

30. (Currently Amended) A system according to claim 24, wherein the tasks undertaken by

the node components include collecting events records from a communication network,

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aggregating event records, converting event records, analyzing event records,

correlating event records, enriching event records, formatting event records, rating events

and/or delivering event records.

31. (Previously Presented) A system according to claim 24, which is configured to process

event records in several, simultaneously operating, and at least partly parallel streams.

32. (Currently Amended) A system according to claim 24, comprising at least two audit trail

counters for counting auditing values, such as number which are individual quantities of at

least two of a group of records consisting of: incoming records, rejected records, reprocessed

records, records residing in a specific node component, records omitted due to filtering,

records expired or deleted, new records created due to splitting or duplication, new records

generated that are not related to input records, input records sent to aggregation/correlation

process, records that were merged due to aggregation or correlation, resulting records that

were completed and came out from the aggregation/correlation process, resulting records that

were flushed out from the aggregation/correlation process, records left to a specific node

component and/or records written out.

33. (Previously Presented) A system according to claim 24, comprising at least one audit trail

function for checking that no data is lost within the system.

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34. (Previously Presented) A system according to claim 24, comprising at least one data

storage component, wherein at least one node component is configured to write information

on all of the events processed by the node component.

35. (Currently Amended) A system according to claim 24, wherein the node manager

component is configured to start up a new node component in case a node component in the

system fails such that the new node component replaces the function of the failed component

in the processing a processing chain.

36. (Previously Presented) A system according to claim 24, wherein the node manager

component is configured to start up a new node component parallel to a functioning node

component in case the processing capacity of the system has to be raised.

37. (Previously Presented) A system according to claim 24, wherein each of the node

components comprise a node base providing basic functionality of the node component and

an application containing processing rules, according to which the node component processes

the event records input to the node component.

38. (Original) A system according to claim 37, wherein the node bases of the node

components are identical to each other.

39. (Previously Presented) A system according to claim 37, wherein the node base includes

an input module, an output module, an API module, a configuration module and an audit

module.

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40. (Previously Presented) A system according to claim 24, wherein the node components

have been configured to continue their independent operation until instructed otherwise by

the node manager component.

41. (Previously Presented) A system according to claim 24, comprising at least two separate

hosts, each of the hosts running at least one of the independent node components.

42. (Currently Amended) A computer program product for a system for handling event

records in a communications network between a generation layer of events and an operation

system layer of events, which system comprises independent nodes of a mediation layer for

processing event records, the computer program product comprising:

a node base program means capable of providing basic software functionality for an for

the independent-node nodes, said basic software functionality including an external

interface of the node and an internal interface of the node,

an application programming interface means for receiving application programs for the

independent nodes, which application programs are capable of interfacing with the

internal interfaces of the node-components,

a node manager program means for setting up at least one node manager that is capable

of constructing, configuring, starting up, monitoring and stopping the independent nodes,

and

a user interface program means for setting up a user interface for configuring the at least

one node manager,

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wherein the system is adapted to pass the event records through at least three of the

independent nodes, starting from one of at least one first independent node, then through

at least one third independent node, and finally through one of at least one second

independent node,

to write the event records output by a preceding independent node into a buffer, and

to read the buffer substantially continuously by a subsequent independent node of the

mediation layer,

- wherein after reading an event record from the buffer, a copy of the event record is

retained in the buffer, and removed from the buffer only after successfully outputting the

event record from the reading independent node of the mediation layer.

43. (Original) A computer program product according to claim 42, wherein the node manager

program means include program code means to direct a node manager to construct

independent nodes by combining a copy of node base program means and an application

program.

44. (Previously Presented) A computer program product according to claim 42, wherein the

application program contains logical rules according to which the node processes the event

records input to the node.

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45. (Previously Presented) A computer program product according to claim 42, wherein the

external interface of the node enables the node to communicate with other nodes and the

node manager.

46. (Previously Presented) A computer program product according to claim 42, wherein the

node manager program means include program code means to direct a node manager, in case

a node in the system fails, to construct, configure and start up a new node that replaces the

function of the failed node.

47. (Previously Presented) A computer program product according to claim 42, wherein the

node manager program means include program code means to direct a node manager, in case

of insufficient production capacity of any of the nodes, to construct, configure and start up a

new node parallel to the node with insufficient production capacity.

48. (Previously Presented) A computer program product according to claim 42, wherein the

application programming interface means are capable of supporting several programming

languages.

49. (Previously Presented) A computer program product according to claim 42, which is

capable of configuring the nodes to form processing chains of serially connected independent

nodes, for processing the event records.

50. (Currently Amended) A computer program product according to claim 49, which is

capable of configuring the nodes in the processing chains to transfer event records from the

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preceding a preceding node in the chain to the subsequent a subsequent node in the chain by

means of a buffer.

51. (Previously Presented) A computer program product according to claim 42, which is

capable of configuring the nodes to function continuously and independently until instructed

otherwise by the node manager.

52. (Previously Presented) A computer program product according to claim 42, which

supports multi-host execution and is capable starting up nodes in different hosts, and

configuring the nodes in different hosts to form processing chains for processing the event

records.